



A process separates and/or isolates plasma proteins, especially human plasma proteins, from a mixture containing plasma proteins, wherein the mixture is applied to a separation medium having an annular design and having a layer of application medium applied thereon; the separation medium having the annular design is rotated essentially vertically about an axis which is defined in the direction of flow of the mixture through the separation medium having the annular design; an eluent is passed through the separation medium having the annular design; and fractions exiting at the end of the separation medium having the annular design are collected.